

SINGLE-STRANDED NUCLEIC ACID TEMPLATE-MEDIATED  
RECOMBINATION AND NUCLEIC ACID FRAGMENT ISOLATION

**ABSTRACT OF THE DISCLOSURE**

- 5 Methods mediated by single-stranded nucleic acid templates, including utilizing single-stranded nucleic acid templates to isolate nucleic acid fragments and to recombine nucleic acid fragments. Methods include polymerase and polymerase-free recombination of nucleic acid fragments to generate chimeric nucleic acid sequences. Integrated systems and kits are also provided.

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